

Coughlan, Laura

From: Coughlan, Laura
Sent: Tuesday, February 13, 2018 1:59 PM
To: Oif, Leslie
Cc: Kreisler, Eva
Subject: FW: EPA Request for information (The Chemours Fayetteville, NC)
Attachments: sanitized TSCA EPA_DuPont_ConsentOrder.pdf; Import Criteria Memo. July 17 Edits - Ic edits.doc

Deliberative Process / Ex. 5

Laura L. Coughlan, P.E.
Environmental Scientist
International and Transportation Branch
Office of Resource Conservation and Recovery
U.S. EPA (5304P)
Potomac Yard South(PYS)-6984
phone: 703-308-0005
fax: 703-308-0514

***Have a question about your notice after looking in WIETS at <https://cfext.epa.gov/wiets/>? Still confused about requirements after checking <https://www.epa.gov/hwgenerators/basic-information-resource-conservation-and-recovery-act-rcra-export-and-import>? Email RCRAnotifications@epa.gov ***

From: Coughlan, Laura
Sent: Thursday, January 11, 2018 12:57 PM
To: Jones, Aaryn <Jones.Aaryn@epa.gov>; Kreisler, Eva <Kreisler.Eva@epa.gov>; Annicella, Alan <Annicella.Alan@epa.gov>; Newman, Alan <Newman.Alan@epa.gov>
Cc: Shaw, Jean <Shaw.Jean@epa.gov>; Lamberth, Larry <Lamberth.Larry@epa.gov>; Buso, Roberto X <Buso.Roberto@epa.gov>; Picardi, Rick <Picardi.Rick@epa.gov>; Shaw, Jean <Shaw.Jean@epa.gov>; Tatum, Jana <Tatum.Jana@epa.gov>; Helms, Greg <Helms.Greg@epa.gov>; Fagnant, Daniel <fagnant.daniel@epa.gov>; Yohannes, Lia <Yohannes.Lia@epa.gov>; Monell, Carol <Monell.Carol@epa.gov>
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From: Jones, Aaryn

Sent: Thursday, January 11, 2018 12:55 PM

To: Coughlan, Laura <Coughlan.Laura@epa.gov>; Kreisler, Eva <Kreisler.Eva@epa.gov>; Annicella, Alan <Annicella.Alan@epa.gov>; Newman, Alan <Newman.Alan@epa.gov>

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Aaryn Jones
Environmental Scientist
U.S. Environmental Protection Agency
61 Forsyth St, S.W.
Atlanta, GA 30303
(404) 562-8969
jones.aaryn@epa.gov

From: Coughlan, Laura

Sent: Thursday, January 11, 2018 12:53 PM

To: Kreisler, Eva <Kreisler.Eva@epa.gov>; Jones, Aaryn <Jones.Aaryn@epa.gov>; Annicella, Alan <Annicella.Alan@epa.gov>; Newman, Alan <Newman.Alan@epa.gov>

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To add to what Eva sent, we only know about the imports because the country of export controls the shipments as exports of hazardous waste under their domestic regulations. But the consents are prospective and establish the maximum quantities to be shipped over the 12-month period, not the actual quantities. So using your TSCA authority to request documentation on the actual incoming shipments being managed would probably be the best path forward.

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From: Kreisler, Eva

Sent: Thursday, January 11, 2018 12:49 PM

To: Jones, Aaryn <Jones.Aaryn@epa.gov>; Coughlan, Laura <Coughlan.Laura@epa.gov>; Annicella, Alan <Annicella.Alan@epa.gov>; Newman, Alan <Newman.Alan@epa.gov>

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Hi Aaryn,

Unfortunately we do not have any data on the quantity of imports to Chemour since the import is not a hazardous waste and, therefore, not a manifested waste for which we would have received import documentation. Laura and I chatted about this and suggest that the TSCA program issue an information request to the company asking for the movement and other import documentation that would have accompanied the shipments into the U.S.

Regards,

Eva H. Kreisler, Attorney-Advisor
International Compliance Assurance Division
Office (202) 564-8186
kreisler.eva@epa.gov

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Address:
Office of Enforcement and Compliance Assurance
Office of Federal Activities
International Compliance Assurance Division (2254A)
Environmental Protection Agency
1200 Pennsylvania Avenue, NW.
Washington, DC 20460

Help EPA fight pollution by reporting environmental violations on EPA's website at <http://www.epa.gov/compliance/complaints/index.html>

This email, including attachments, contains information that is confidential and it may be protected by the attorney-client or other privileges. This email, including attachments, contains information that is intended to be conveyed only to the designated recipient(s).

From: Jones, Aaryn

Sent: Wednesday, January 10, 2018 12:28 PM

To: Coughlan, Laura <Coughlan.Laura@epa.gov>; Annicella, Alan <Annicella.Alan@epa.gov>; Newman, Alan <Newman.Alan@epa.gov>

Cc: Shaw, Jean <Shaw.Jean@epa.gov>; Lamberth, Larry <Lamberth.Larry@epa.gov>; Buso, Roberto X <Buso.Roberto@epa.gov>; Picardi, Rick <Picardi.Rick@epa.gov>; Kreisler, Eva <Kreisler.Eva@epa.gov>; Shaw, Jean

<Shaw.Jean@epa.gov>; Tatum, Jana <Tatum.Jana@epa.gov>; Helms, Greg <Helms.Greg@epa.gov>; Fagnant, Daniel <fagnant.daniel@epa.gov>; Yohannes, Lia <Yohannes.Lia@epa.gov>; Monell, Carol <Monell.Carol@epa.gov>
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Thanks,

Aaryn Jones
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61 Forsyth St, S.W.
Atlanta, GA 30303
(404) 562-8969
jones.aaryn@epa.gov

From: Coughlan, Laura
Sent: Monday, January 08, 2018 5:26 PM
To: Jones, Aaryn <Jones.Aaryn@epa.gov>; Annicella, Alan <Annicella.Alan@epa.gov>; Newman, Alan <Newman.Alan@epa.gov>
Cc: Shaw, Jean <Shaw.Jean@epa.gov>; Lamberth, Larry <Lamberth.Larry@epa.gov>; Buso, Roberto X <Buso.Roberto@epa.gov>; Picardi, Rick <Picardi.Rick@epa.gov>; Kreisler, Eva <Kreisler.Eva@epa.gov>; Shaw, Jean <Shaw.Jean@epa.gov>; Tatum, Jana <Tatum.Jana@epa.gov>; Helms, Greg <Helms.Greg@epa.gov>; Fagnant, Daniel <fagnant.daniel@epa.gov>; Yohannes, Lia <Yohannes.Lia@epa.gov>
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Totally understand. My kids school closed at 1:30 pm due to anticipated icy roads.

Laura L. Coughlan, P.E.
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R4 – and we’ve had an unusual day in R4, with a delayed opening (weather) and the national college football championship game is tonight a few blocks from the building and we were all encouraged to telework. I will be asking folks tomorrow and will let you all know.

Thanks for all your input today!

Aaryn Jones
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U.S. Environmental Protection Agency
61 Forsyth St, S.W.
Atlanta, GA 30303
(404) 562-8969
jones.aaryn@epa.gov

From: Coughlan, Laura

Sent: Monday, January 08, 2018 5:11 PM

To: Jones, Aaryn <Jones.Aaryn@epa.gov>; Annicella, Alan <Annicella.Alan@epa.gov>; Newman, Alan <Newman.Alan@epa.gov>

Cc: Shaw, Jean <Shaw.Jean@epa.gov>; Lamberth, Larry <Lamberth.Larry@epa.gov>; Buso, Roberto X <Buso.Roberto@epa.gov>; Picardi, Rick <Picardi.Rick@epa.gov>; Kreisler, Eva <Kreisler.Eva@epa.gov>; Shaw, Jean <Shaw.Jean@epa.gov>; Tatum, Jana <Tatum.Jana@epa.gov>; Helms, Greg <Helms.Greg@epa.gov>; Fagnant, Daniel <fagnant.daniel@epa.gov>; Yohannes, Lia <Yohannes.Lia@epa.gov>

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Cc: Shaw, Jean <Shaw.Jean@epa.gov>; Lamberth, Larry <Lamberth.Larry@epa.gov>; Buso, Roberto X <Buso.Roberto@epa.gov>; Picardi, Rick <Picardi.Rick@epa.gov>; Kreisler, Eva <Kreisler.Eva@epa.gov>; Shaw, Jean <Shaw.Jean@epa.gov>; Tatum, Jana <Tatum.Jana@epa.gov>; Helms, Greg <Helms.Greg@epa.gov>; Fagnant, Daniel <fagnant.daniel@epa.gov>; Yohannes, Lia <Yohannes.Lia@epa.gov>
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From: Coughlan, Laura
Sent: Monday, January 08, 2018 4:41 PM
To: Jones, Aaryn <Jones.Aaryn@epa.gov>; Annicella, Alan <Annicella.Alan@epa.gov>; Newman, Alan <Newman.Alan@epa.gov>
Cc: Shaw, Jean <Shaw.Jean@epa.gov>; Lamberth, Larry <Lamberth.Larry@epa.gov>; Buso, Roberto X <Buso.Roberto@epa.gov>; Picardi, Rick <Picardi.Rick@epa.gov>; Kreisler, Eva <Kreisler.Eva@epa.gov>; Shaw, Jean <Shaw.Jean@epa.gov>; Tatum, Jana <Tatum.Jana@epa.gov>; Helms, Greg <Helms.Greg@epa.gov>; Fagnant, Daniel <fagnant.daniel@epa.gov>; Yohannes, Lia <Yohannes.Lia@epa.gov>
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Cc: Shaw, Jean <Shaw.Jean@epa.gov>; Lamberth, Larry <Lamberth.Larry@epa.gov>; Buso, Roberto X <Buso.Roberto@epa.gov>; Picardi, Rick <Picardi.Rick@epa.gov>; Kreisler, Eva <Kreisler.Eva@epa.gov>; Shaw, Jean <Shaw.Jean@epa.gov>; Tatum, Jana <Tatum.Jana@epa.gov>; Helms, Greg <Helms.Greg@epa.gov>; Fagnant, Daniel <fagnant.daniel@epa.gov>; Yohannes, Lia <Yohannes.Lia@epa.gov>
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To: Coughlan, Laura <Coughlan.Laura@epa.gov>; Annicella, Alan <Annicella.Alan@epa.gov>; Newman, Alan <Newman.Alan@epa.gov>

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Thanks,

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Nov 22: <https://cen.acs.org/articles/95/i47/North-Carolina-yank-Chemours-water-pollution-permit-for-fluorochemical-production.html>

Nov 6: <https://www.northcarolinahealthnews.org/2017/11/06/21525/>

Aug 17: <https://www.northcarolinahealthnews.org/2017/08/17/genx-pollution-what-happened-when/>

June 17: <https://theintercept.com/2017/06/17/new-teflon-toxin-found-in-north-carolina-drinking-water/>

Did North Carolina pull the water permit like the Nov 22 article said it was going to do? Or was that article inaccurate?

With respect to Alan Annicella's questions #1 and #2, it looks like the company originally wrote in to Stanley Tam back in 2014 because Stanley originally objected to the import and they were explaining that the waste was not RCRA hazardous. I pulled up the 2014 notice number 008812/11/14 in WIETS, and found that there was first an objection letter sent back to the country of export on February 20, 2014, followed by a "neither consent nor object" letter sent to the country of export on April 3, 2014. As you know, EPA sends a "neither consent nor object" when the waste in question is not regulated as RCRA hazardous waste and there is not another regulation applying to the import. It allows the shipment to proceed. When I checked for other notices listing that facility (E.I. DUPONT DE NEMOURS & CO. LTD), I found another notice from 2015 (011183/11/15), that also resulted in a neither consent nor object response to the Netherlands. When I checked for notices listing THE CHEMOURS COMPANY at the same address (22828 NC 87 HIGHWAY WEST FAYETTEVILLE, NC United States 28306), I found the following notices, all of which listed FRD-902 and all of which ended in EPA sending a consent to the Netherlands:

013184/11/15

014551/7/16

018131/11/17

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From: Jones, Aaryn
Sent: Monday, January 08, 2018 10:06 AM
To: Annicella, Alan <Annicella.Alan@epa.gov>; Newman, Alan <Newman.Alan@epa.gov>; Kreisler, Eva <Kreisler.Eva@epa.gov>; Coughlan, Laura <Coughlan.Laura@epa.gov>
Cc: Shaw, Jean <Shaw.Jean@epa.gov>; Lamberth, Larry <Lamberth.Larry@epa.gov>; Buso, Roberto X <Buso.Roberto@epa.gov>
Subject: RE: EPA Request for information (The Chemours Fayetteville, NC)

Hi Alan,

The EU did a study in 2016 on FRD-902 and FRD-903 (which we in the region are calling HFPO-dimer acid salt and HFPO-dimer acid, respectively) and concluded that the compounds were likely either persistent or "very persistent", and could not be ruled out as not having toxicity or bioaccumulative concerns based on the limited available studies. These two

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From: Annicella, Alan

Sent: Monday, January 08, 2018 7:16 AM

To: Newman, Alan <Newman.Alan@epa.gov>; Kreisler, Eva <Kreisler.Eva@epa.gov>; Coughlan, Laura <Coughlan.Laura@epa.gov>

Cc: Shaw, Jean <Shaw.Jean@epa.gov>; Jones, Aaryn <Jones.Aaryn@epa.gov>; Lamberth, Larry <Lamberth.Larry@epa.gov>

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Thank you,
Alan

Alan A. Annicella, Chief
Hazardous Waste Enforcement and Compliance Section
Resource Conservation and Restoration Division
The US EPA - Region 4 - Sam Nunn Atlanta Federal Center
61 Forsyth St, SW
Atlanta, Georgia 30303
Office phone: 404.562.8610
Fax 404.562.8566

From: Newman, Alan
Sent: Friday, January 05, 2018 4:36 PM
To: Kreisler, Eva <Kreisler.Eva@epa.gov>; Coughlan, Laura <Coughlan.Laura@epa.gov>
Cc: Shaw, Jean <Shaw.Jean@epa.gov>; Annicella, Alan <Annicella.Alan@epa.gov>; Jones, Aaryn <Jones.Aaryn@epa.gov>; Lamberth, Larry <Lamberth.Larry@epa.gov>
Subject: FW: EPA Request for information (The Chemours Fayetteville, NC)

Hey all,

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Thanks.

Alan Newman
Kentucky and Tennessee State Coordinator
Import/Export Contact for Region 4
Hazardous Waste Enforcement and Compliance Section
Environmental Protection Agency
61 Forsyth Street
Atlanta, Georgia 30303
(404) 562 – 8589
newman.alan@epa.gov

—o
—\<,
(*)/ (*)

From: JOHNSON, MICHAEL E [<mailto:MICHAEL.E.JOHNSON@chemours.com>]
Sent: Thursday, August 04, 2016 2:21 PM
To: Newman, Alan <Newman.Alan@epa.gov>
Cc: Movius, Richard D <RICHARD-D-RICK.MOVIUS@chemours.com>
Subject: RE: EPA Request for information

Alan:

Rick Movius forwarded the emails you and he have been exchanging.

Below is an email that I sent you on December 14, 2105, which includes a March 2014 email to Stanley Tam. The email to Stanley should answer your questions.

Mike

Michael E. Johnson, PE
Environmental Manager
Chemours Company – Fayetteville Works
(910) 678-1155



The Chemours Company FC, LLC
22828 NC Highway 87 W
Fayetteville, NC 28306-7332

From: Newman, Alan [<mailto:Newman.Alan@epa.gov>]
Sent: Wednesday, August 03, 2016 10:27 AM
To: Movius, Richard D <RICHARD-D-RICK.MOVIUS@chemours.com>
Subject: RE: SDS for FRD-902NL

Mr. Movius,

Thank you for the quick response to my request.

How will this material be recycled/reclaimed? What usable material will be realized from this reclamation process?
What is the end use of this reclaimed material?

Thank you,

Alan Newman
Kentucky and Tennessee State Coordinator
Import/Export Contact for Region 4
Hazardous Waste Enforcement and Compliance Section
Environmental Protection Agency
61 Forsyth Street

Atlanta, Georgia 30303
(404) 562 – 8589
newman.alan@epa.gov

RECYCLING/RECLAMATION OF ORGANIC SUBSTANCES

From: Movius, Richard D [<mailto:RICHARD-D-RICK.MOVIUS@chemours.com>]
Sent: Wednesday, August 03, 2016 10:14 AM
To: Newman, Alan <Newman.Alan@epa.gov>
Subject: SDS for FRD-902NL

Alan,

Attached you will find the SDS for the above material.

Let me know if there are any questions.

Rick Movius

From: JOHNSON, MICHAEL E
Sent: Monday, December 14, 2015 9:00 AM
To: newman.alan@epa.gov
Cc: Movius, Richard D <RICHARD-D-RICK.MOVIUS@chemours.com>; MAISCH, JOHN J <john.j.maisch@chemours.com>
Subject: Approval of Importation of Waste (EVOA Notification NL603825)

Alan:

As promised, attached is the March 2014 email to Stanley Tam that resolved the importation issue with the surfactant from The Netherlands.

As I mentioned to you, I believe the request you have in front of you is the third importation of the spent surfactant from The Netherlands to my Fayetteville, North Carolina facility.

One clarification for you: On July 1, 2015, the Fluoroproducts business segment of the DuPont Company was separated into a new publicly traded company called The Chemours Company. Therefore you will see in the attached email that both the Fayetteville, NC and the Dordrecht, Netherlands facilities are referred to as being “DuPont” whereas now the documents will likely refer to them as “Chemours”.

Thank you for your assistance with this request, and do not hesitate to contact me if you have additional questions.

PS – I am working today (12-14) and tomorrow (12-15), and then will be on vacation until January 4, 2106. If you have any questions regarding the EVOA Notification (NL603825), you can contact Rick Movius at 910-

678-1515 or John Maisch at 910-678-1597, or email them at their respective addresses (both are cc'd on this email).

Mike

Michael E. Johnson, PE
Environmental Manager
Chemours Company – Fayetteville Works
(910) 678-1155



The Chemours Company FC, LLC
22828 NC Highway 87 W
Fayetteville, NC 28306-7332

From: Johnson, Michael E
Sent: Tuesday, March 11, 2014 10:40 AM
To: tam.stanley@epa.gov
Subject: Notice of Objection (EPA Notice ID: 008812/11/14) of Foreign Notice ID: NL 603282

VIA EMAIL

March 11, 2014

Mr. Stanley Tam
Regional Coordinator
USEPA Region 4

SUBJECT: Notice of Objection (EPA Notice ID: 008812/11/14) of Foreign Notice ID: NL 603282

Dear Mr. Tam:

Thank you for discussing the subject Notice of Objection regarding the DuPont Company's intent to export spent FRD-902 (ammonium or potassium salt of perfluorinated ether carbonic acid) from the DuPont Dordrecht Netherlands facility to the DuPont Company – Fayetteville, North Carolina facility for reclamation.

As background, FRD-902 is a surfactant that is used as a processing aid in the production of fluoropolymers, and as such is not consumed in the process. The FRD-902 is separated from the finished product and recovered as a side stream from the process. As a result of its use, the recovered FRD-902 no longer meets the acceptable water content specification and there is also an undesired collection of organic salts from the process, which results in the surfactant no longer performing satisfactorily as a direct recycle stream back into the polymerization process.

The high value of the FRD-902 makes it economically imperative to reclaim this surfactant. There is also the environmental benefit from recycling a material versus the disposal of that material. The spent FRD-902 is to be reclaimed at the DuPont Company – Fayetteville, North Carolina facility where the unwanted salts are removed and the water content level is returned to within the finished product specification.

EPA has indicated that its objection to the requested importation of the spent FRD-902 for reclamation is that the DuPont Company – Fayetteville, North Carolina facility is not authorized to receive a hazardous waste or hazardous recyclable material from off-site.

The issue at hand is the pronounced differences in the definition of a hazardous waste under the European Union's Waste Management Act of 1996 and the definition of a hazardous waste under 40 CFR Part 261, as is described below.

The spent FRD-902 has been given the European Waste List code 070201*. The "0702" category is for "wastes from the manufacture, formulation, supply and use of plastics, synthetic rubber and man-made fibers". The "070201" subcategory is for "aqueous washing liquids and mother liquors" and the "*" means that subcategory is considered hazardous under the EU's Waste Management Act.

While the spent FRD-902 does meet the broad definition of a hazardous waste under the European Union's regulations, this material does not meet the definition of a hazardous waste under 40 CFR Part 261 as is demonstrated below.

Since the spent FRD-902 is a "spent material" that is being reclaimed, it meets the definition of a "solid waste" under 40 CFR 261.2(c)(3).

On 09-18-2013 a sample of the spent FRD-902 was submitted to a commercial laboratory for analysis of the RCRA hazardous characteristics. The results from this analysis are attached and are explained in the following:

- The spent FRD-902 had no observed flashpoint, therefore the material is not characteristically hazardous for ignitability.
- The pH of the spent FRD-902 was 3.3 SU, therefore the material is not characteristically hazardous for corrosivity.
- All forty of the toxicity characteristic contaminants were less than their maximum concentrations as listed in Table 1 of 40 CFR 261.24(b). Therefore the material is not characteristically hazardous for toxicity.

Since the spent FRD-902 is a water based product, it cannot undergo any reactions with water. The surfactant is stable; it contains neither cyanides nor sulfides; and it is not capable of detonation or explosive reaction. Therefore the material is not characteristically hazardous for reactivity.

The spent FRD-902 is not one of the "F" listed hazardous wastes from non-specific sources per 40 CFR 261.31(a).

The spent FRD-902 is not one of the "K" listed hazardous wastes specific sources per 40 CFR 261.32(a).

The spent FRD-902 is not one of the "P" or "U" listed commercial chemical products or manufacturing chemical intermediates per 40 CFR 261.33(e) and 33(f) respectively.

In conclusion, since the spent FRD-902 is neither a characteristic hazardous waste nor a listed hazardous waste, it is therefore classified as a non-hazardous waste. The DuPont Company – Fayetteville, North Carolina facility is not prohibited from receiving a non-hazardous waste or non-hazardous recyclable material from off-site.

Therefore, DuPont respectfully requests that EPA rescind the subject Notice of Objection as quickly as possible so that the needed import permits can be issued and the reclamation of the spent FRD-902 can begin.

If you have any questions regarding this matter, please let me know.

Sincerely,

Michael E. Johnson
Environmental Manager
DuPont Company – Fayetteville Works
(910) 678-1155

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